

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P225597

Luminaire Tested: **22AC-LD5-27-SQP-UNV-L830-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P225597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35765)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22AC-LD5-27-SQP-UNV-L830-CD1-U
Description: METALUX Accord 2X2 LED TROFFER WITH SQP LENS
Light Source: (84)3000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1895.6 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

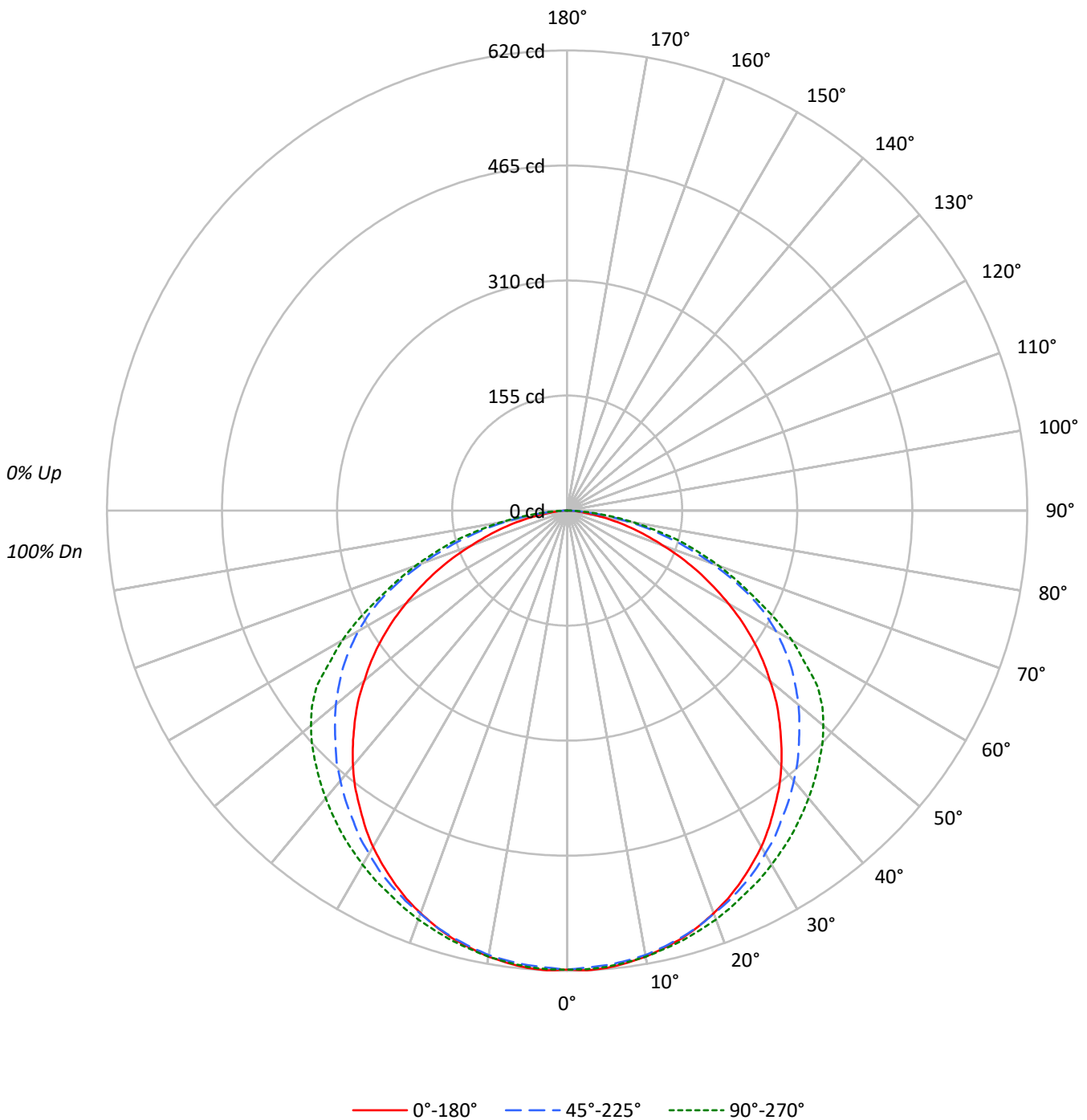
Input Watts (W): 22.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1664	1664	1664
5°	1671	1661	1667
10°	1668	1661	1668
15°	1663	1658	1671
20°	1653	1655	1679
25°	1641	1659	1689
30°	1626	1659	1712
35°	1601	1660	1741
40°	1578	1670	1778
45°	1541	1681	1826
50°	1494	1704	1886
55°	1438	1731	1931
60°	1352	1747	1884
65°	1241	1733	1781
70°	1079	1628	1710
75°	920	1466	1614
80°	697	1255	1395
85°	463	834	973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	3.1
10°-20°	168.5	8.9
20°-30°	258.2	13.6
30°-40°	317.8	16.8
40°-50°	341.6	18.0
50°-60°	324.3	17.1
60°-70°	251.3	13.3
70°-80°	141.9	7.5
80°-90°	33.5	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	485.3	25.6
0°-40°	803.1	42.4
0°-60°	1469.0	77.5
0°-90°	1895.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1895.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	618	618	618	618	618	
5°	618	616	615	616	617	59
15°	597	596	595	598	600	168
25°	553	554	559	565	569	255
35°	487	493	505	523	530	305
45°	405	417	442	469	480	312
55°	307	331	369	400	412	273
65°	195	228	272	277	280	192
75°	88	125	141	150	155	94
85°	15	22	27	31	32	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	618.5	618.5	618.5	618.5	618.5
2.5°	620.0	618.5	616.3	617.8	618.5
5°	618.5	616.3	614.8	615.5	617.0
7.5°	614.8	613.3	611.8	613.3	614.0
10°	610.3	608.8	608.0	609.5	610.3
12.5°	603.5	602.8	602.0	604.3	605.0
15°	596.8	596.0	595.3	598.3	599.8
17.5°	587.8	587.0	587.8	590.8	593.0
20°	577.3	577.3	578.0	583.3	586.3
22.5°	566.0	566.8	569.0	574.3	578.0
25°	552.6	554.1	558.6	565.3	569.0
27.5°	538.3	540.6	547.3	555.6	560.8
30°	523.3	526.3	533.8	545.1	551.1
32.5°	506.1	509.8	521.1	534.6	540.6
35°	487.3	493.3	505.3	522.6	530.1
37.5°	469.3	475.3	491.1	509.8	518.1
40°	449.1	456.6	475.3	496.3	506.1
42.5°	427.3	437.1	459.6	483.6	493.3
45°	404.9	416.9	441.6	469.3	479.8
47.5°	382.4	395.1	424.4	454.3	466.3
50°	356.9	373.4	407.1	437.8	450.6
52.5°	332.9	351.6	387.6	419.9	433.3
55°	306.6	331.4	368.9	400.4	411.6
57.5°	279.7	307.4	347.1	375.6	378.6
60°	251.2	280.4	324.6	344.9	350.1
62.5°	222.7	254.9	300.6	315.6	316.4
65°	194.9	227.9	272.2	277.4	279.7
67.5°	166.4	203.2	239.9	243.7	248.2
70°	137.2	177.7	206.9	214.4	217.4
72.5°	111.7	151.4	173.2	182.2	185.2
75°	88.5	125.2	141.0	149.9	155.2
77.5°	65.2	96.7	111.0	118.5	120.7
80°	45.0	68.2	81.0	87.0	90.0
82.5°	28.5	43.5	51.7	57.7	59.2
85°	15.0	21.7	27.0	30.7	31.5
87.5°	6.0	6.7	9.0	15.0	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)